RAW SEQUENCE LISTING
PATENT APPLICATION *US/09/576,290*

DATE: 12/01/2000
TIME: 04:04:26

INPUT SET: S36[illegible].txt

This Raw Listing contains the General Information Section and up to the first 5 pages.

SEQUENCE LISTING

(1) General Information:

(i) APPLICANT: Hinuma, Shuji
Habata, Yugo
Kawamata, Yuji
Hosoya, Masaki
Fujii, Ryo
Fukusumi, Shoji
Kitada, Chieko

(ii) TITLE OF INVENTION: POLYPROTEINS, THEIR PRODUCTION AND USE

(iii) NUMBER OF SEQUENCES: 140

(iv) CORRESPONDENCE ADDRESS:
(A) ADDRESSEE: DIKE, BRONSTEIN, ROBERTS & CUSHMAN, LLP
(B) STREET: 130 Water Street
(C) CITY: Boston
(D) STATE: MA
(E) COUNTRY: USA
(F) ZIP: 02109

(v) COMPUTER READABLE FORM:
(A) MEDIUM TYPE: Diskette
(B) COMPUTER: IBM compatible
(C) OPERATING SYSTEM: DOS
(D) SOFTWARE: FastSEQ for Windows Version 2.0

(vi) CURRENT APPLICATION DATA:
(A) APPLICATION NUMBER: 09/576,290
(B) FILING DATE:
(C) CLASSIFICATION:

(vii) PRIOR APPLICATION DATA:
(A) APPLICATION NUMBER: 08/776,971
(B) FILING DATE:

(vii) PRIOR APPLICATION DATA:
(A) APPLICATION NUMBER: JP 7/343371
(B) FILING DATE: 28-DEC-1995

(vii) PRIOR APPLICATION DATA:
(A) APPLICATION NUMBER: JP 8/59419
(B) FILING DATE: 15-MAR-1996

(vii) PRIOR APPLICATION DATA:
(A) APPLICATION NUMBER: JP 8/211805
(B) FILING DATE: 12-AUG-1996

(vii) PRIOR APPLICATION DATA:
(A) APPLICATION NUMBER: JP 8/246573
(B) FILING DATE: 18-SEP-1996

(viii) ATTORNEY/AGENT INFORMATION:
(A) NAME: Conlin, David G.
(B) REGISTRATION NUMBER: 27,026
(C) REFERENCE/DOCKET NUMBER: 47176

(ix) TELECOMMUNICATION INFORMATION:
(A) TELEPHONE: 617-523-3400
(B) TELEFAX: 617-523-6440

(2) INFORMATION FOR SEQ ID NO:1:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 98 amino acids
(B) TYPE: amino acid
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: protein

(v) FRAGMENT TYPE: internal

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:

```
Met Lys Ala Val Gly Ala Trp Leu Leu Cys Leu Leu Leu Leu Gly Leu
1               5                  10                  15
Ala Leu Gln Gly Ala Ala Ser Arg Ala His Gln His Ser Met Glu Ile
            20                  25                  30
Arg Thr Pro Asp Ile Asn Pro Ala Trp Tyr Ala Gly Arg Gly Ile Arg
        35                  40                  45
Pro Val Gly Arg Phe Gly Arg Arg Arg Ala Ala Pro Gly Asp Gly Pro
    50                  55                  60
Arg Pro Gly Pro Arg Arg Val Pro Ala Cys Phe Arg Leu Glu Gly Gly
65                  70                  75                  80
Ala Glu Pro Ser Arg Ala Leu Pro Gly Arg Leu Thr Ala Gln Leu Val
                85                  90                  95
Gln Glu
```

(2) INFORMATION FOR SEQ ID NO:2:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 294 base pairs
(B) TYPE: nucleic acid

(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:2:

```
ATGAAGGCGG TGGGGGCCTG GCTCCTCTGC CTGCTGCTGC TGGGCCTGGC CCTGCAGGGG      60
GCTGCCAGCA GAGCCCACCA GCACTCCATG GAGATCCGCA CCCCCGACAT CAACCCTGCC     120
TGGTACGCRG GCCGTGGGAT CCGGCCCGTG GGCCGCTTCG GCCGGCGAAG AGCTGCCCYG     180
GGGGACGGAC CCAGGCCTGG CCCCCGGCGT GTGCCGGCCT GCTTCCGCCT GGAAGGCGGY     240
GCTGAGCCCT CCCGAGCCCT CCCGGGGCGG CTGACGGCCC AGCTGGTCCA GGAA           294
```

(2) INFORMATION FOR SEQ ID NO:3:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 29 amino acids
(B) TYPE: amino acid
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: protein

(v) FRAGMENT TYPE: internal

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:3:

```
Ser Arg Ala His Gln His Ser Met Glu Ile Arg Thr Pro Asp Ile Asn
1               5                   10                  15
Pro Ala Trp Tyr Ala Gly Arg Gly Ile Arg Pro Val Gly
            20                  25
```

(2) INFORMATION FOR SEQ ID NO:4:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 19 amino acids
(B) TYPE: amino acid
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: protein

(v) FRAGMENT TYPE: internal

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:4:

```
Thr Pro Asp Ile Asn Pro Ala Trp Tyr Ala Gly Arg Gly Ile Arg Pro
1               5                   10                  15
Val Gly Arg
```

(2) INFORMATION FOR SEQ ID NO:5:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 31 amino acids
(B) TYPE: amino acid
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: protein

(v) FRAGMENT TYPE: internal

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:5:

```
Ser Arg Ala His Gln His Ser Met Glu Ile Arg Thr Pro Asp Ile Asn
1               5                   10                  15
Pro Ala Trp Tyr Ala Gly Arg Gly Ile Arg Pro Val Gly Arg Phe
            20                  25                  30
```

(2) INFORMATION FOR SEQ ID NO:6:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 32 amino acids
(B) TYPE: amino acid
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: protein

(v) FRAGMENT TYPE: internal

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:6:

```
Ser Arg Ala His Gln His Ser Met Glu Ile Arg Thr Pro Asp Ile Asn
1               5                   10                  15
Pro Ala Trp Tyr Ala Gly Arg Gly Ile Arg Pro Val Gly Arg Phe Gly
            20                  25                  30
```

(2) INFORMATION FOR SEQ ID NO:7:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 33 amino acids
(B) TYPE: amino acid
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: protein

(v) FRAGMENT TYPE: internal

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:7:

206
207 Ser Arg Ala His Gln His Ser Met Glu Ile Arg Thr Pro Asp Ile Asn
208 1 5 10 15
209 Pro Ala Trp Tyr Ala Gly Arg Gly Ile Arg Pro Val Gly Arg Phe Gly
210 20 25 30
211 Arg
212
213
214 (2) INFORMATION FOR SEQ ID NO:8:
215
216 (i) SEQUENCE CHARACTERISTICS:
217 (A) LENGTH: 20 amino acids
218 (B) TYPE: amino acid
219 (C) STRANDEDNESS: single
220 (D) TOPOLOGY: linear
221
222 (ii) MOLECULE TYPE: protein
223
224 (v) FRAGMENT TYPE: internal
225
226 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:8:
227
228 Thr Pro Asp Ile Asn Pro Ala Trp Tyr Ala Gly Arg Gly Ile Arg Pro
229 1 5 10 15
230 Val Gly Arg Phe
231 20
232
233
234 (2) INFORMATION FOR SEQ ID NO:9:
235
236 (i) SEQUENCE CHARACTERISTICS:
237 (A) LENGTH: 21 amino acids
238 (B) TYPE: amino acid
239 (C) STRANDEDNESS: single
240 (D) TOPOLOGY: linear
241
242 (ii) MOLECULE TYPE: protein
243
244 (v) FRAGMENT TYPE: internal
245
246 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:9:
247
248 Thr Pro Asp Ile Asn Pro Ala Trp Tyr Ala Gly Arg Gly Ile Arg Pro
249 1 5 10 15
250 Val Gly Arg Phe Gly
251 20
252
253
254 (2) INFORMATION FOR SEQ ID NO:10:
255
256 (i) SEQUENCE CHARACTERISTICS:
257 (A) LENGTH: 22 amino acids
258 (B) TYPE: amino acid

SEQUENCE VERIFICATION REPORT
PATENT APPLICATION *US/09/576,290*

DATE: 12/01/2000
TIME: 04:04:28

INPUT SET: S36162.raw

Line	Error	Original Text

SEQUENCE MISSING ITEM REPORT
PATENT APPLICATION *US/09/576,290*

DATE: 12/01/2000
TIME: 04:04:28

INPUT SET: S36162.raw

PRIOR APPLICATION DATA More Identifiers Found Than MAX Allowed

SEQUENCE CORRECTION REPORT
PATENT APPLICATION *US/09/576,290*

DATE: 12/01/2000
TIME: 04:04:28

INPUT SET: S36162.raw

Line	Original Text	Corrected Text
2558	(2) INFORMATION FOR SEQ ID NO:110	(2) INFORMATION FOR SEQ ID NO:110: